



RDE Command



Briefing For: 40mm Industry Day

28-30 JAN 2004

40 mm TDPs

Review, Clean and 3D

Arthur R. Pizza

**Act. APO 40mm Production
US ARMY ARDEC**

**apizza@pica.army.mil
(973) 724-6032**

Leo D'Ulisse

**Team Leader Quality
Assurance**

US ARMY ARDEC

**dulisse@pica.army.mil
(973) 724-5715**



Introduction

Objective: To provide an update of the ongoing technical review of the 40mm Technical Data Packages. The technical reviews will include the generation of Detailed Specifications and have a three-dimensional feature added to the drawings.

Goal: To complete the TDPs by 30 April 2004.





TDPs Affected

- High Velocity (MK19 Mod3 GMG)
 - M385A1 Practice
 - M918 Practice (“Flash-Bang”)
 - M430A1 High Explosive Dual Purpose (HEDP)
- Low Velocity (M203/M79)
 - M781 Practice (“Orange Dye”)
 - M583A1 White Star Parachute (“Illumination”)
 - M433 High Explosive Dual Purpose (HEDP)





OUTLINE

- A. Review the TDP
 - 1. Drawings
 - 2. Specifications (Standardize Testing)
 - 3. Packaging Requirements
- B. Generate DTL Specifications as required.
- C. Generate 3D drawings





Review the TDP

- Check drawings
 - Hierarchy (WBS)
 - Notes
 - Dimensions and Tolerances
 - Drawing Methods
 - Specifications (Standardize Testing When Possible)
 - Qualified source of supply
 - Distribution Statements





Examples

- Hierarchy
 - Is there a COAI drawing?
 - Is a DTL Spec. attached to the top drawing?
 - Are the Packaging drawings correct and called out?
- Notes
 - Are they clear and understandable?
 - Do they make sense and are they necessary?
- Dimensions and Tolerances
 - Are the dimensions correct?
 - Are they called out correctly using the right symbols?
 - Does the tolerances make sense?



Examples cont.

- Drawing Methods
 - Ansi-Y14.5?
 - Are the proper symbols used?
 - Are the datum's correct?
 - Are the depiction correct?
- Qualified Source of supply
 - Are there qualified sources?
 - Are they still making the item?
- Distribution Statement
 - Is the statement correct?
 - Is it missing?





What This Means

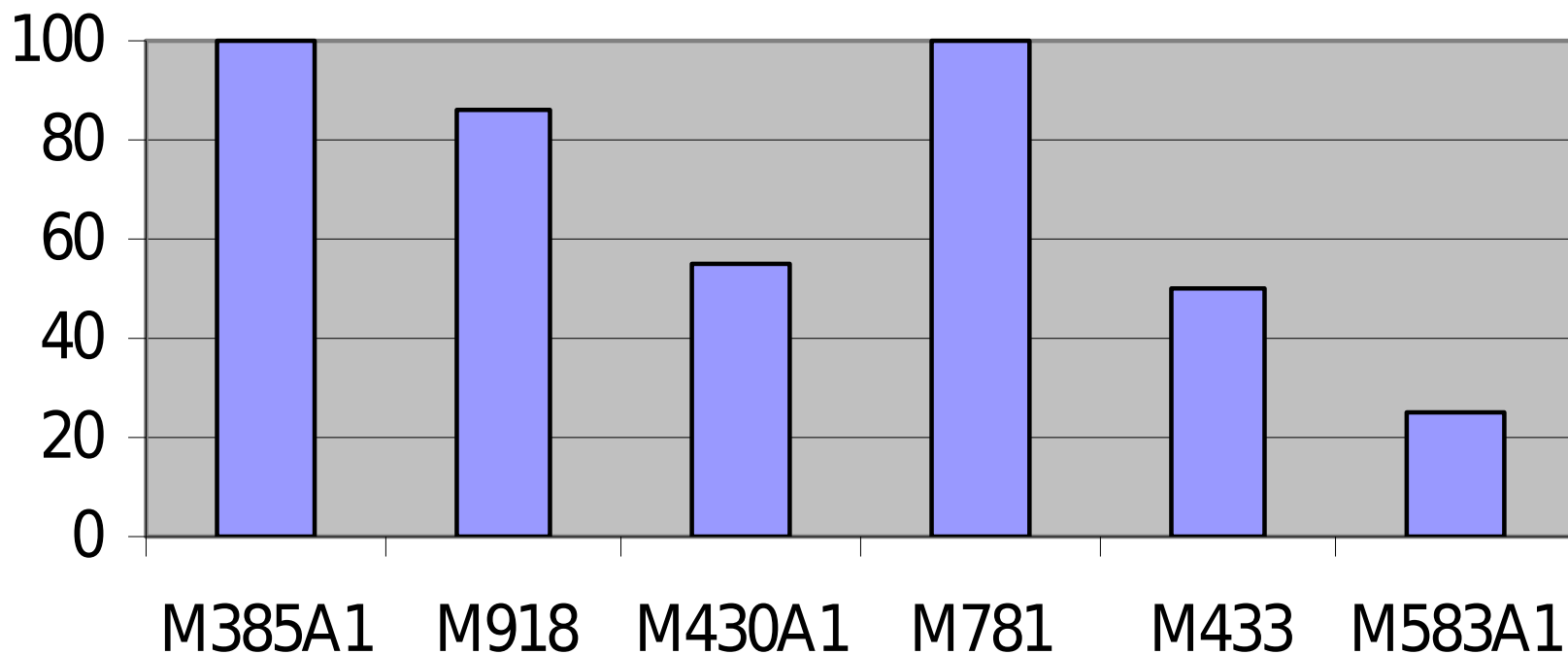
- A better TDP set-up for a Systems type contract.
- Up-to-date Detailed Specifications
- Better understanding and improved visualization through 3d.
- Reduced number of ECPs and RFDs and RFWs.



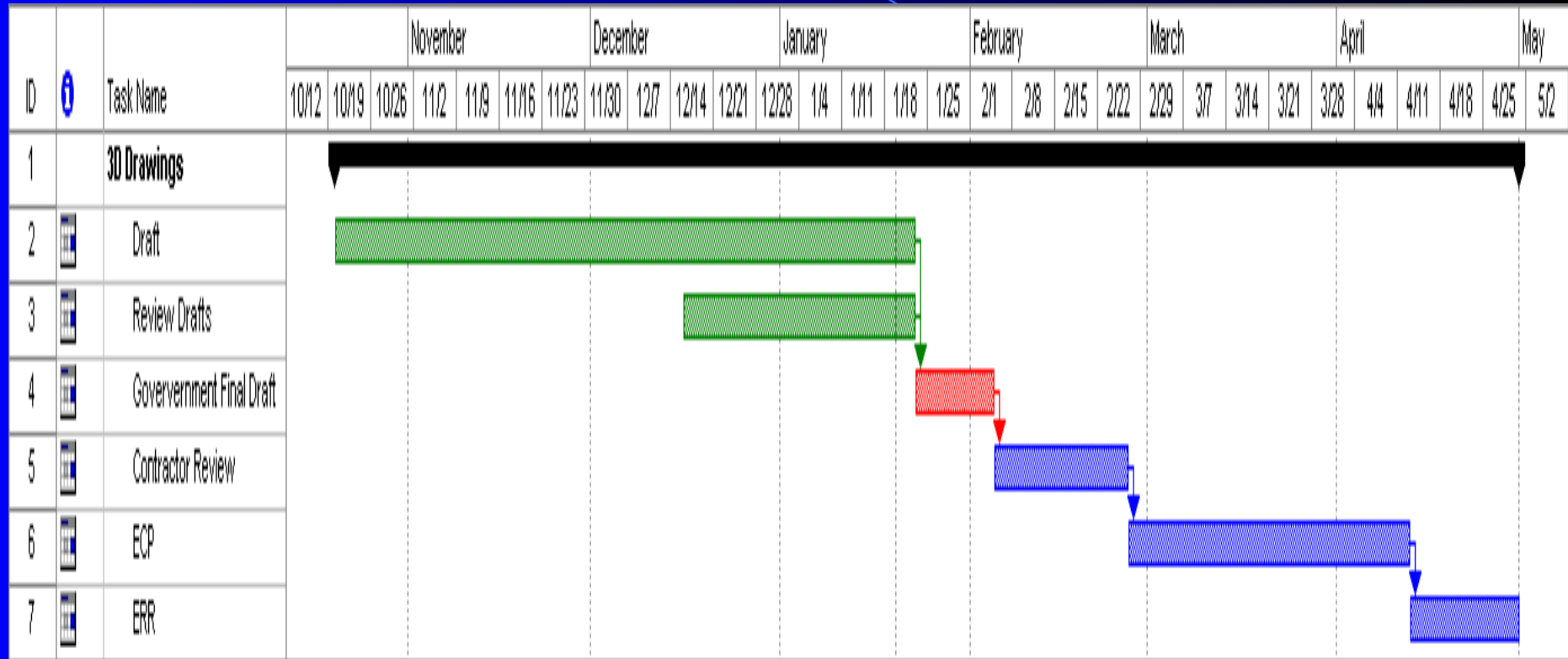
Technical Data

3D

PERCENT COMPLETED



M385A1 3D TDP Scrub



Finishe



Scheduled for completi

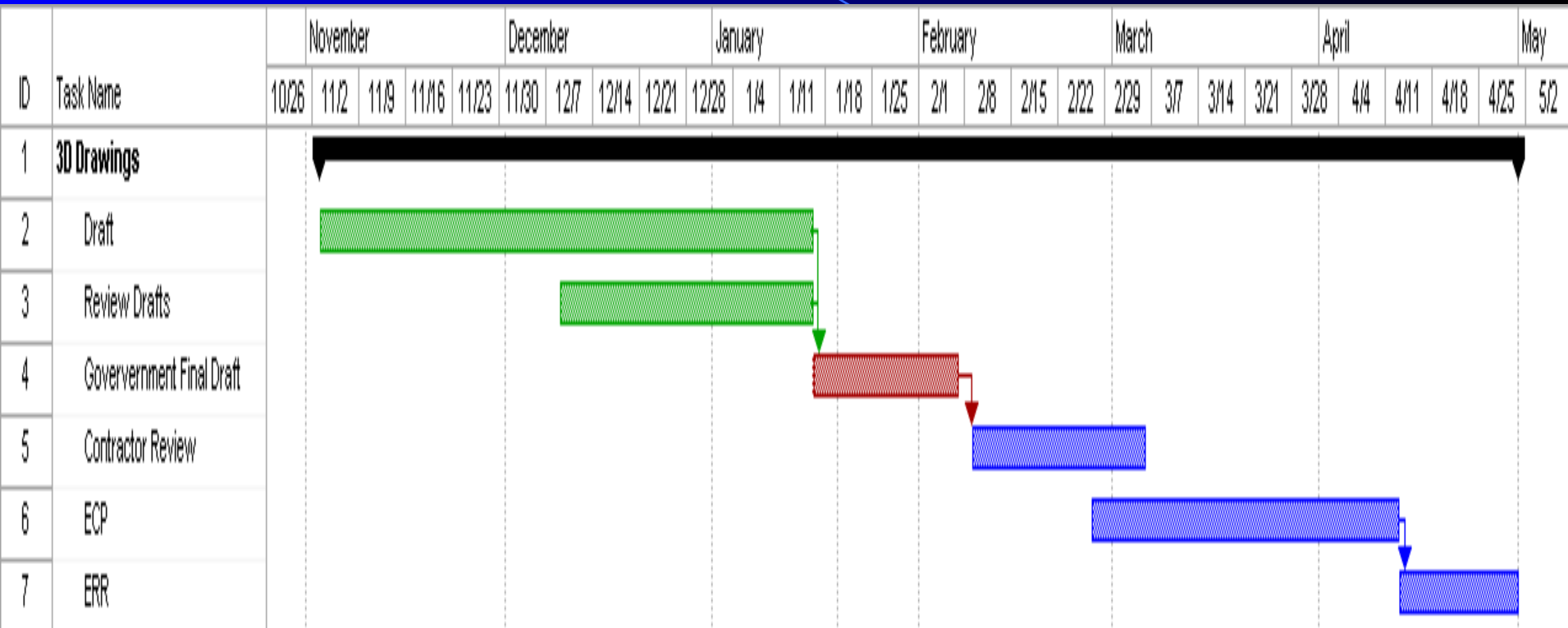


d
Currently in progress

RDE Command



M918 3D TDP Scrub



Finishe
d



Scheduled for
completion

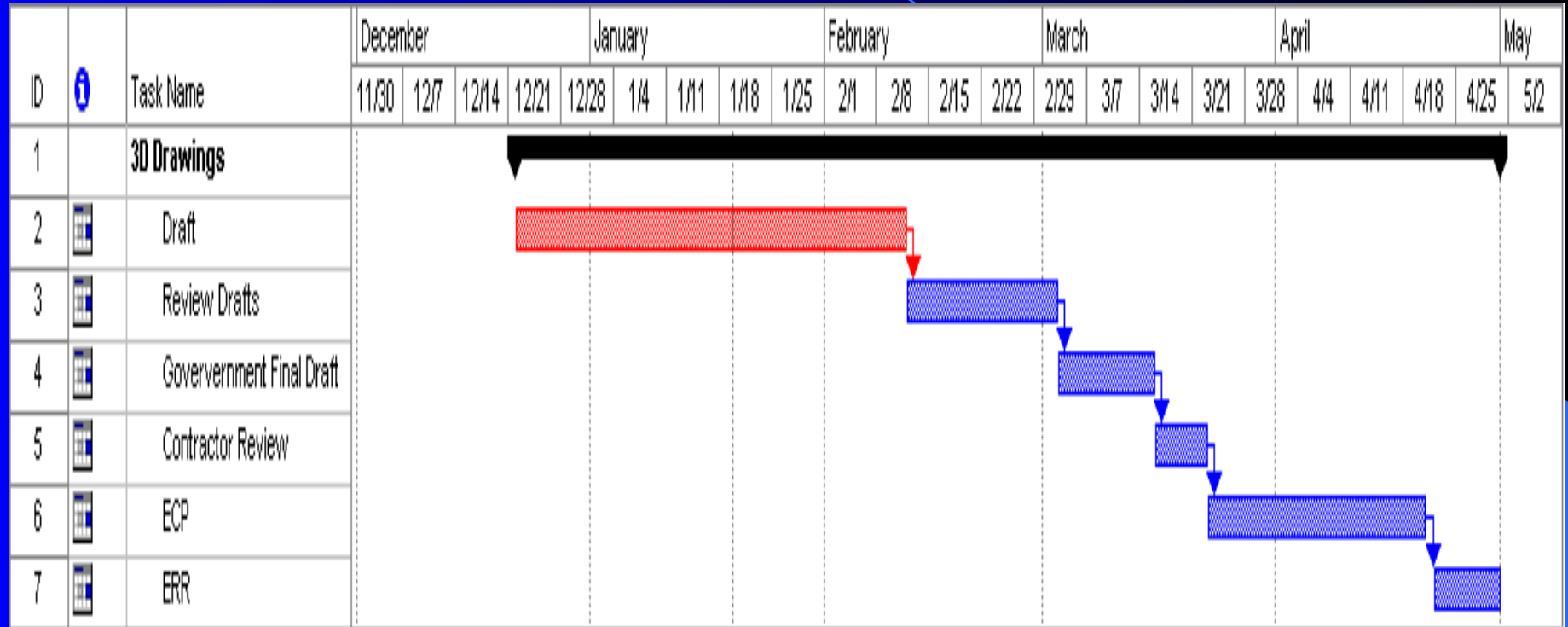


Currently in progress

RDE Command



M430A1 3D TDP Scrub



Finishe
d



Scheduled for completion

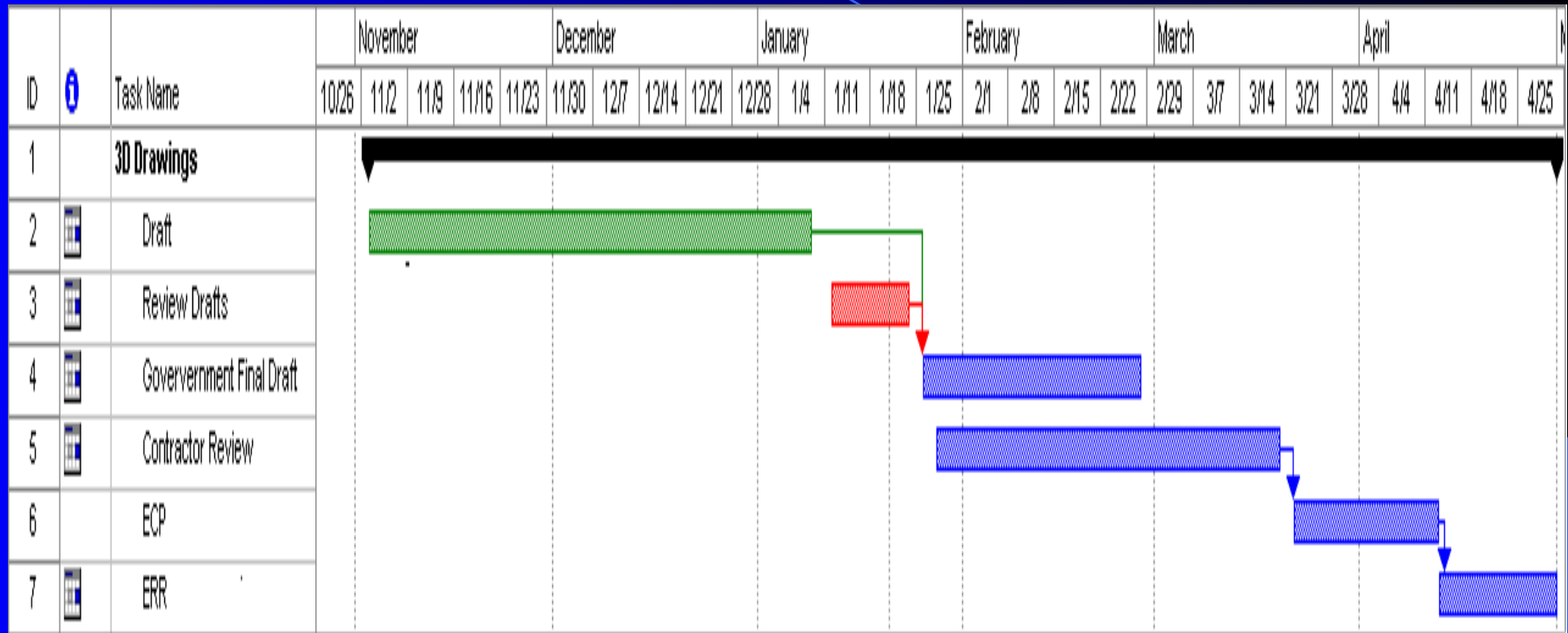


Currently in progress

RDE Command



M781 3D TDP SCRUB



Finishe
d



Currently in progress

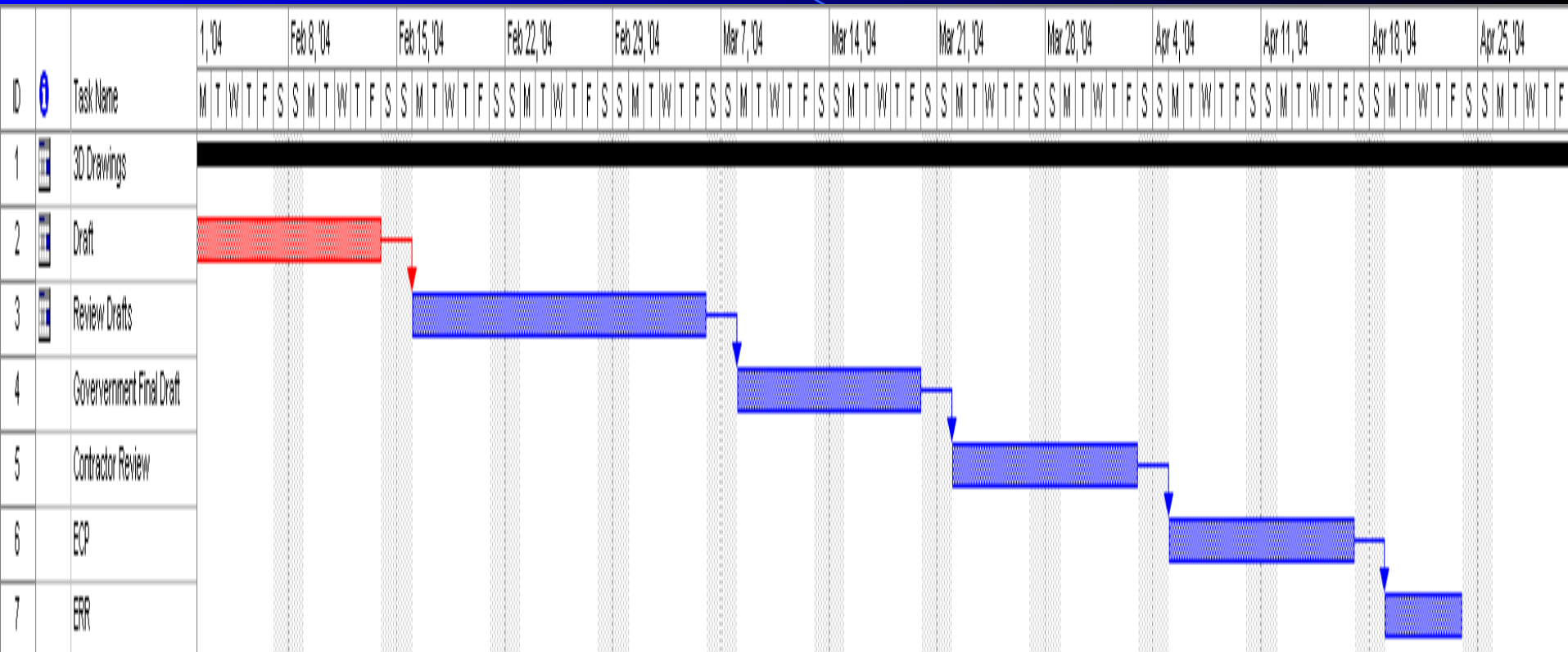


Scheduled for
completion

RDE Command



M433 3D TDP SCRUB



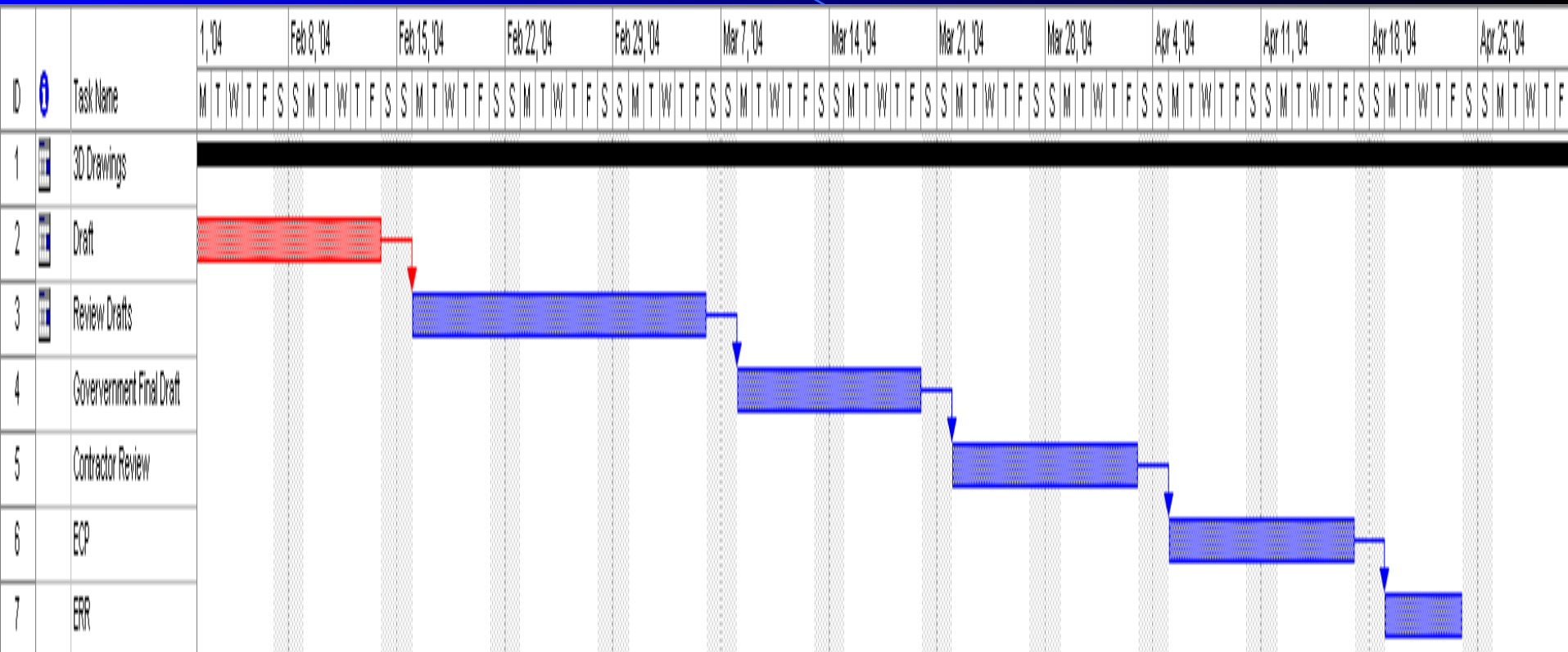
Finishe
d
Currently in progress

Scheduled for completion

RDE Command



M583 3D TDP SCRUB



Finishe
d
Currently in progress

Scheduled for completion

RDE Command



Detailed Specifications

- M433 – Consolidated 7 specifications into 1: including Spitiback, M118 Ctg Case, Ctg Case LAP, M118& M195 Plug Base and Cup Powder Charge, Liner and Prj. Metal Parts
- M918 – Separate Projectile and Cartridge LAP
- M385 – Separate Projectile and Cartridge LAP
- M550 Fuze
- M550 Fuze Escapement
- M583/M661/M662
- M781 – Completed; Available via Website
- M169 Case
- M430A1
- Link

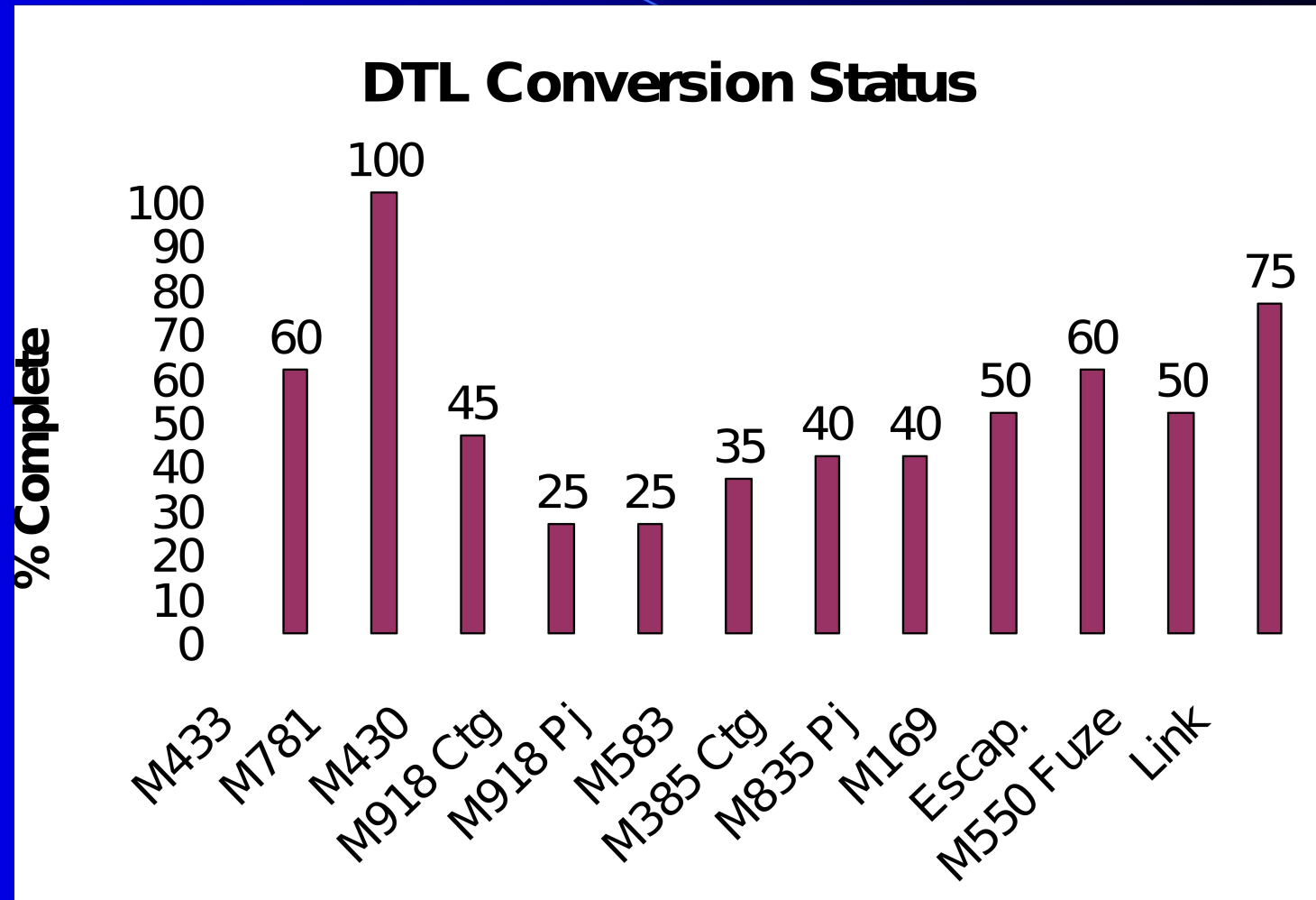


MIL-DTL Major Changes

- Moved all end item requirements to Section 3
- Replaced MIL-STD-105 with MIL-STD- 1916
- Consolidated specifications as much as possible
- New format in accordance with MIL-STD- 961E



STATUS





Conclusions

- No TDP is perfect
- TDPs are living documents that are constantly changing. (For the better)
- If there is errors in the TDPs let me know and I will get them incorporated.





Questions

Arthur R. Pizza

(973) 724-6032

apizza@pica.army.mil

Leo D'Ulisse

(973) 724-5715

dulisse@pica.army.mil



Introduce Ray Coiro Team Leader 3D EFFORT

